CALF VIGOR SCORING



			UAL APPEARANCE			
	Yellow Staining (Meconium)	Normal: no staining	Slight: around anal/ tail head area	Moderate: extending over body	Severe: full covered	
		3	2	1	0	
	Tongue/Head	Normal: no swelling, tongue	Tongue protruding but not swollen	Tongue protruding and swollen	Head and ton swollen, tong	
		3	2	1	0	
		INITIA	TION OF MOVEMEN	т		
		Standing/ walking	Attempts to stand	Sitting upright (Sternal)	On side, no e to rise	
	Calf Movement	0-30 min.	30 min 1.5 hr.	1.5 hr 3 hr.	> 3 hr.	
_		3	2	1	0	
		GENER	AL RESPONSIVENES	S		
	Suckling Reflex	Strong <mark>3</mark>	Medium <mark>2</mark>	Weak 1	No respon <mark>0</mark>	
	Head Shake (in response to straw in nose)	Shakes head vigorously 3	Moves head away <mark>2</mark>	Twitches or flinches 1	Does not respond <mark>0</mark>	
	Tongue Pinch	Actively withdraws tongue	Attempts to withdraw 2	Twitches tongue	Does not respond O	
	Eye Reflex (after touching		Actively blinks and closes eye	Slow to blink	Does not resp	
	eyebalij	yeball) 2			0	
	OXYGENATION					
	Mucous Membrane	Bright pink	Light pink	Brick red	White/blu	
	Colour	3	2	1	0	
			RATES			
	Heart Rate (bpm= beats per minute)	Normal: 90		regular: >160 bpm Slo	w/absent: <90	
	(To measure hear	t rate, put your hand on the calf's chest. Take pulse for 15 seconds and multiply by four.)				
	Respiration (rrpm- respiratory rate per minute)		•	ow: <40 rrpm	Fast: >70 rrpn	

Add the points above to establish score. Poor or marginal calves require early intervention.

18-20 = Marginal

21-22 = Good 23-25 = Very Good

26-27 = Excellent



are available at: BeefResearch.ca/calf911



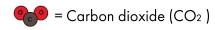
Scan for video

RESPIRATORY ACIDOSIS



CAUSE

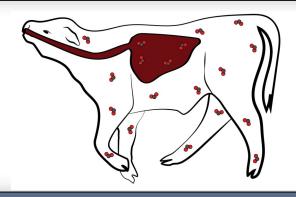
Respiratory acidosis is caused by a **delay** in stage two of the birthing process, in which the calf does not inhale or exhale while stuck in the birth canal.





EFFECTS

- Gas exchange between mother and calf stops
- The calf's lungs cannot expand
- Oxygen cannot be taken in by the calf
- Carbon dioxide cannot be expired by the calf
- Carbon dioxide builds in the calf's system
- The calf's blood becomes acidic

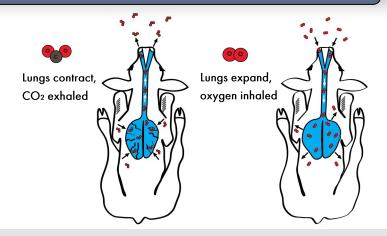


SYMPTOMS

- Low VIGOR score Staggering
- Weakness
- "Dummy calf"
- Coma

TREATMENT

- Place in recovery position for quickest return to normal respiration
- Resuscitate with a CPR mask and bag
- Consult with a veterinarian for intravenous electrolyte treatment



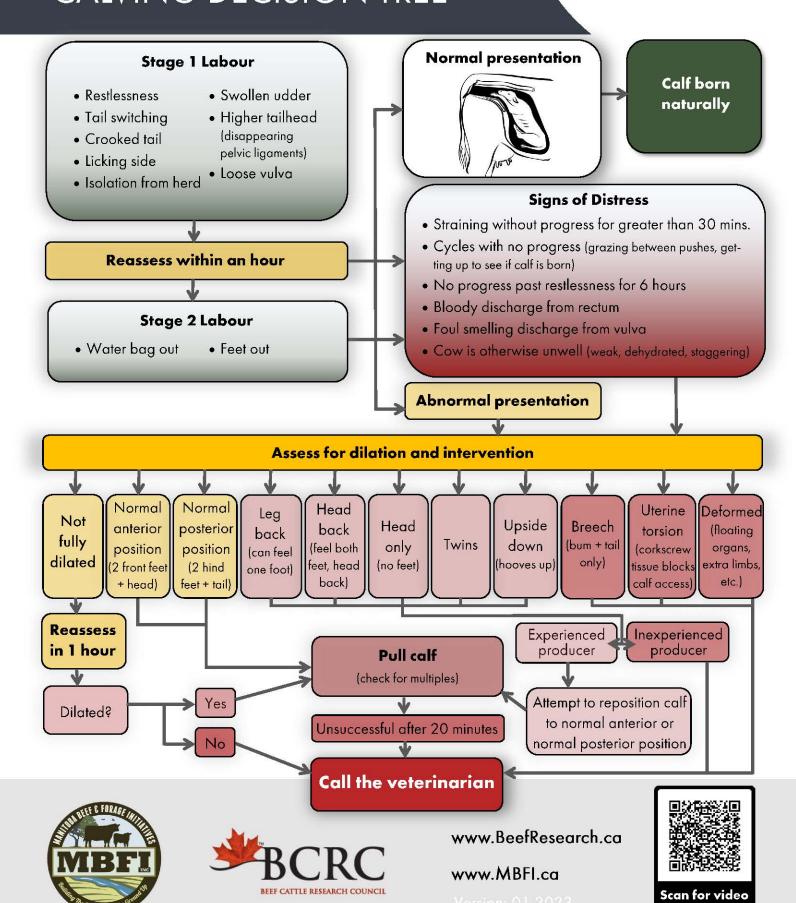


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CALVING DECISION TREE

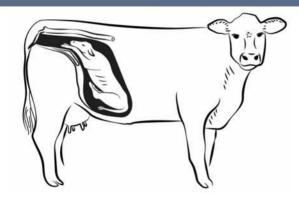
When should you call the vet?



CALVING PRESENTATIONS



ANTERIOR (NORMAL) PRESENTATION

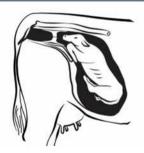




NOT DILATED

POSTERIOR PRESENTATION

ONE LEG BACK PRESENTATION







HEAD BACK PRESENTATION

BREECH PRESENTATION





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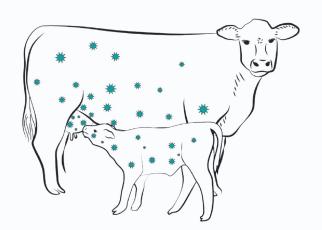
Scan for more
Calf 911 resources



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COLOSTRUM MANAGEMENT





KNOW WHEN TO SUPPLEMENT

- Twins
- Weak calves
- Poor suckle reflex
- Difficult calvings
- Poor udder health
- Lack of maternal instincts

- Ensure the herd is up to date on vaccinations.
- Intervene early. The ideal intake is 2 litres of colostrum within the first 2 hours of life and another 2 litres in the next 8-12 hours.
- Give enough. Calves need a minimum of 100g of IgG in their first feeding. Ensure the replacer totals 100g, which may require more than one package.
- Collect your own colostrum. Fresh or frozen colostrum from your own farm is always best.

DO NOT

- Do not give the wrong product. Replacer is meant to be used when no other sources of colostrum have been made available and must contain adequate levels of IgG. Supplements are meant to be added to a calf's diet that has already received some colostrum.
- Do not automatically tube feed. It is always better to try feeding via a nipple first, and if unsuccessful then move to tube feeding. Tube feeding places fluid directly into the rumen, which doesn't allow for maximum absorption of IgG and nutrients.
- Do not thaw frozen colostrum in the microwave, instead use a warm water bath.
- Do not bring in colostrum from another farm. Diseases not commonly found on your farm could be introduced by using raw colostrum products from other farms.



RECOVERY POSITION



PLACEMENT

- Place the calf up on its sternum.
- Pull the front feet forward to allow the chest to expand.
- Pull the back legs up toward the calf's ears.





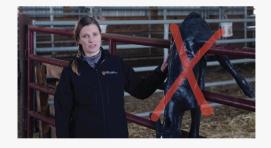
PROCEDURE

- **Solution** Rub the calf vigorously.
- Stimulate breathing by poking the nasal septum with a piece of straw.
- Squirt a few drops of cold water in the ear to cause them to gasp.



REMEMBER

DO NOT hang the calf upside down to drain fluid. This only empties the stomach and puts pressure on the diaphragm.



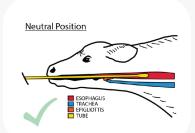


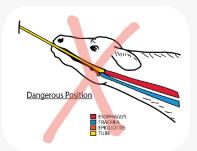
TUBE (ESOPHAGEAL) FEEDING



POSITION

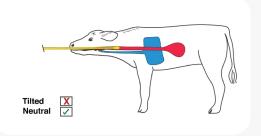
- Restrain the calf in a corner to maintain head control.
- Place the head in a neutral position.





PLACEMENT

- Gently advance the tube. If there's resistance, pull it out and start again.
- Palpate the calf's neck. When the tube is in the correct position, you will feel two tube-like structures (trachea and esophagus).



REMEMBER

- It's important to feed slowly. It can take up to 3 minutes for the stomach to fill.
- Ensure the fluids are body temperature (38°C/100°F).
- Before pulling the tube, kink and pull in one swift motion to ensure no fluid is inhaled.
- To ensure pathogens are not introduced to the herd, use separate feeders for sick and healthy animals.
- Clean the equipment thoroughly.



DEHYDRATION CHECKLIST



GUIDELINES FOR ASSESSMENT OF DEHYDRATION IN CALVES

Dehydration Level	Attitude	Eyeball Recession	Skin Tent Duration
None (<5%)	Normal	None	<1 sec
Mild (6-8%)	Slightly Depressed	2-4 mm (1/8")	2-4 sec
Moderate (8-10%)	Depressed	4-6 mm (3/16")	4-6 sec
Severe (10-12%)	Comatose	6-8 mm (1/4")	>6 sec

Source: Geof Smith, DVM, MS, PhD, Dept. of Population Health & Pathobiology, North Carolina State University



SKIN TENT

Perform a skin-tent test by pinching the skin over the neck and gently pulling to make a tent. Release and count how many seconds it takes for the skin to return to normal.

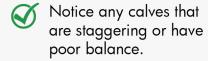
BEHAVIOUR

Look for behaviour cues in the herd, such as a calf that is not stretching when rising. Watch for calves with drooping ears. A cow bawling for a calf or showing a full udder indicates the calf is not nursing. Watch for calves that appear lethargic or depressed.

EYES

To assess a calf for sunken eyes, look at the space between the lower eyelid and the eyeball. The wider the space, the more dehydrated the calf is.

BALANCE



TEMPERATURE

Be aware of the link between dehydration and hypothermia. Normal temperature is 38-39°C.

SUCKLE



Pay attention to calves with a weak or non-rhythmic suckle reflex.

www.BeefResearch.ca

Scan to watch a 4 minute video

